

# STANDALONE WALL INTERFACE USB-DMX SLIM

V.1.5.0



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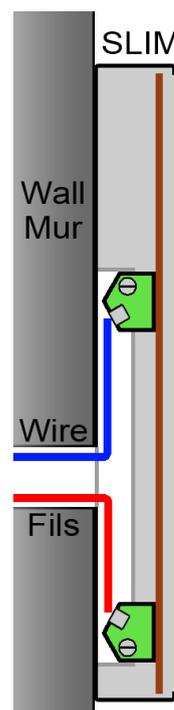
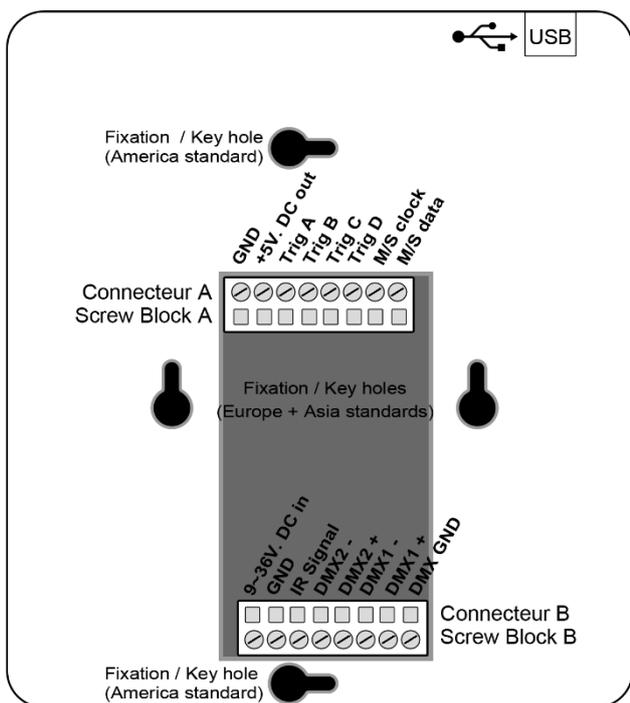
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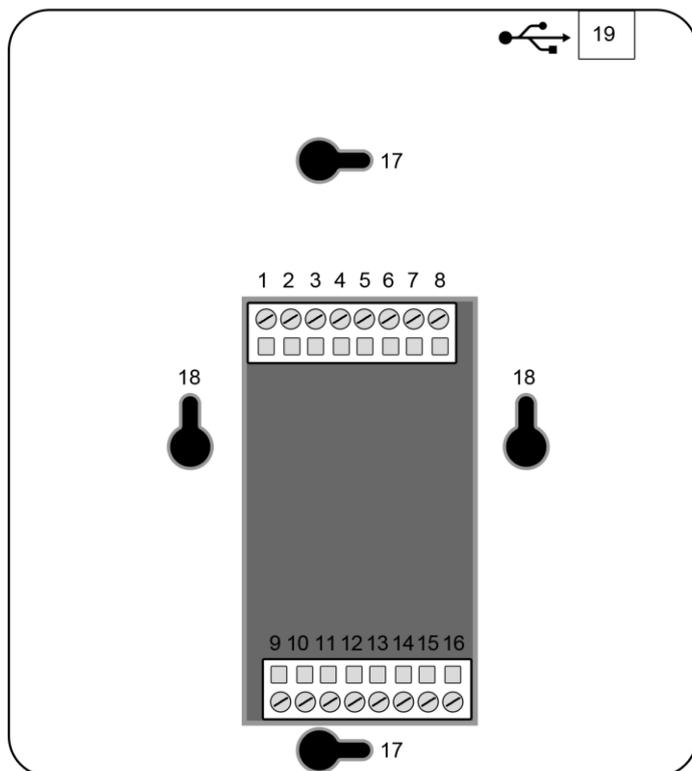
## HARDWARE TECHNICAL SPECIFICATIONS

<b>Input/output Connectors:</b>	Screw terminal (4 pins + 5 pins)
<b>Number of DMX Input/Output:</b>	512 or 1024 (PC + Standalone)
<b>PC DMX IN triggers:</b>	Yes
<b>Standalone DMX IN triggers:</b>	512 channels available only with a 1024 interfaces
<b>DMX Merging:</b>	Yes, 512 channels from DMX B to DMX A, only with 1024 interfaces
<b>Standalone DMX merging:</b>	512 channel from DMX B to DMX A only with 1024 interfaces
<b>External triggers:</b>	x4 contacts (5V.) multiplexed to 15 contacts max, (20m max cable length)
<b>Infra-Red connection:</b>	Yes via an external IR module and 3 connection wires (max 15m away)
<b>Master/Slave connection:</b>	Yes, 3 wires for 16 connected interfaces max, (20 m cable distance max)
<b>DMX Speed:</b>	1 to 45 Hz, MaB, Bk
<b>USB Mode:</b>	Yes
<b>Stand Alone Mode:</b>	Yes
<b>Internal Clock (RTC):</b>	Yes
<b>Internal calendar:</b>	Yes
<b>Backups of the internal clock:</b>	Yes, 3 weeks without power
<b>Internal memory:</b>	Yes (4 MB)
<b>Memory Capacity:</b>	4000 steps with 512 channels, 100 000 steps with 16 channels
<b>Display of signal states:</b>	DMX LED + USB LED
<b>Data display:</b>	7 segment LED display (blue)
<b>Power supply input:</b>	9-36V external or 5V with USB
<b>Contact Input Voltage (stand-alone):</b>	5 V
<b>Input Current:</b>	80 to 200 mA
<b>Power:</b>	2 W
<b>CPU's technology:</b>	32 bits
<b>Dimensions:</b>	H : 127 mm, W : 110 mm, D : 19 mm
<b>Weight:</b>	250 g
<b>Color:</b>	Black / White
<b>Operating temperatures:</b>	-25 to +70 °C
<b>Certificates:</b>	CE, RoHS
<b>IP Rating:</b>	IP20
<b>Place of Use:</b>	Indoor
<b>Storage:</b>	Keep in a dry place
<b>Warranty:</b>	24 months
<b>Compatibility:</b>	8 and 16 bit DMX fixtures
<b>System Compatibility:</b>	Windows XP, Vista, 7, 8, 8.1, 10, MAC OS X (10.6 and higher), Linux

## GENERAL PINOUT AND DEVICE'S CONNECTOR



## BOTTOM FACE OF THE INTERFACE



### External connectors:

- 1: GND
- 2: 5V. DC External trigger voltage
- 3: External trigger A
- 4: External trigger B
- 5: External trigger C
- 6: External trigger D
- 7: Master/Slave Clock
- 8: Master/Slave Data
- 9: External input power 9-36 V (mandatory)
- 10: GND
- 11: Infra Red signal
- 12: DMX2 - data
- 13: DMX2 + data
- 14: DMX1 - data
- 15: DMX1 + data
- 16: DMX ground

### External wall mounting:

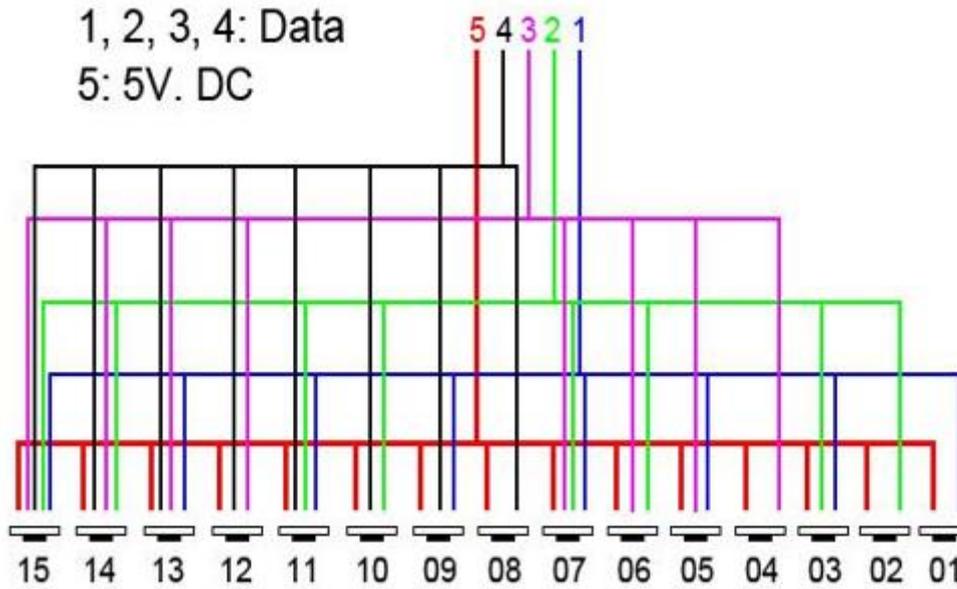
- 17: America standards
- 18: Europe + Asia standards

### PC connection:

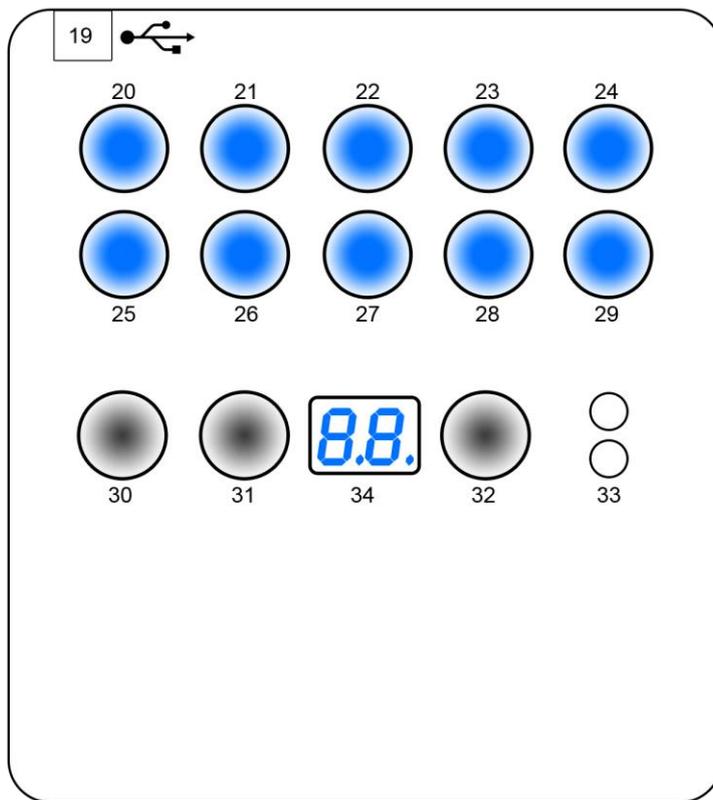
- 19: Mini USB connector (PC) 5V. DC

## 15 EXTERNAL CONTACTS WIRING AND CONNECTIONS

The 4 external contacts are located on screw terminal. You can use the 4 contacts to basically trigger 4 scenes. To have more triggers you must use a multiplexed system to get a maximum of 15 contacts as following:



## TOP FACE OF THE INTERFACE



19 : Mini USB connector (PC) / 5V. DC

### Scene triggering buttons:

20: Scene 1 On/Off

21: Scene 2 On/Off

22: Scene 3 On/Off

23: Scene 4 On/Off

24: Scene 5 On/Off

25: Scene 6 On/Off

26: Scene 7 On/Off

27: Scene 8 On/Off

28: Scene 9 On/Off

29: Scene 10 On/Off

### Command buttons:

30: Mode selection (trigger, speed, dimmer)

31: - decrease values

32: + increase values

### Display and LED:

33: Current mode LED

34: 7-segment LED display

## SELECTING MODE BUTTON

Press the Mode button to select a mode between speed, dimmer or trigger

LED 1 and 2 OFF : Trigger Mode.

LED 1 ON only : Speed mode.

LED 2 ON only : Dimmer mode. ( works on Dimmer or RGB channels)

## +/- BUTTONS OPERATION:

**Trigger mode:** + and – buttons allows to choose a different scene. You have to hold + and – buttons for 2 seconds to validate the selection and play the new scene.

**Speed mode:** + and – buttons allows to increase or decrease the speed of the current scene from -9 to 9.

**Dimmer mode:** + and – buttons allows to increase or decrease the dimmer of the current scene from -9 to 9.

## LED 7-SEGMENTS DISPLAY OPERATION:

Display the number of the playing scene and the mode (speed/dimmer) value.

**00:** Stand Alone mode running. No scene is playing. All DMX channels are set to 0.

**PC:** The interface is connected to the computer and software controlled.

In trigger mode, the 7 segment display gives the current scene number. The 00 value indicates that no scene is playing and the SLIM DMX interface send nulls (0x00) on all output DMX channels. In speed mode, the display indicates the speed of the current scene, values are between -9 and 9. In dimmer mode, the display indicates the general intensity, values are between -9 and 9.

#### LED 7-SEGMENTS SLEEP OPTION:

It's possible to activate the sleep option in the software. This will turn off the display after 4 seconds of inactivity on the interface's buttons.

Turn off LED display after 4s Option available in the standalone window of the software

#### EXTERNAL TRIGGERS OPERATION:

Connect the pins to 5V following these combinations: 01 = A ; 02 = B ; 03 = AB ; 04 = C ; 05 = AC ; 06 = BC ; 07 = ABC ; 08 = D ; 09 = AD ; 10 = BD ; 11 = ABD ; 12 = CD ; 13 = ACD ; 14 = BCD ; 15 = ABCD.

By default, the interface gives 4 external contacts (01, 02, 04, 08). To obtain 15 external contacts, you have to use a de-multiplexing interface in order to go from 4 to 15 possible combinations.

#### INFRA RED TRIGGERS OPERATION:

An external module with an Infra Red receiver is necessary. It can be connected to the following pins:

GND (pin 1 or 10) + 5V. DC out (pin 2) + IR Signal (pin 11).

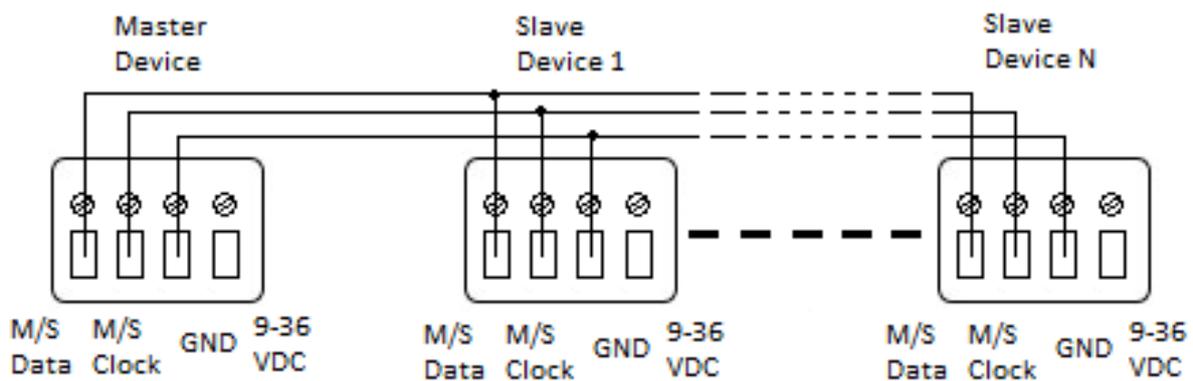
## INTERFACES MASTER/SLAVE CONNECTION

When multiple interfaces are connected with USB, the standalone mode allows to set them as Master/Slave. This mode allows to synchronise many interfaces and mutualize their standalone spaces combining the universes. (up to 32 standalone universes )

A single interface can be define as master, others are automatically set to slaves. Triggers operated on the master interface are passed on slaves. However slaves are not synchronized on play time and keep individual control. Consequently slaves can trig and play different scenes. The master acts like a general remote imposing triggering to the slaves.



Master/Slave mode allows to synchronize scenes and trigger actions of several interfaces together. To use interfaces as Master/Slave, you have to connect the interfaces each other's from the screw terminals. You need to connect together the pins M/S Data, M/S CLK and GND, as following:



Interfaces configured as slave will strictly follow the clock, triggers and information providing by the master interface. Only one master interface at a time.

When multiple interfaces are connected with USB, the standalone mode allows to set them as Master/Slave. This mode allows to synchronize many interfaces and mutualize their standalone spaces combining the universes. (Up to 32 standalone universes)



The Stand Alone mode allows to choose 1 interface and to define this interface as Master from the interface list, it is possible to choose only one to be the Master, all the other one will be configured as slave by default. The interfaces are always ordered by serial number ascending order.

- **MODE MASTER/SLAVE « Default »**

A single interface can be define as master (lower serial number by default), others ones are automatically set to slaves. The master device play the current scene and synchronize the slave ones. The master forces the slave interfaces to play the same scene and the same step at the same time. The slave interfaces are forced to follow the master timings and triggers and they cannot act, play or trigger a scene independently. Master can trigger on and trigger off scenes of the slave interfaces.

- **MODE MASTER/SLAVE « Desynchronized»**

An interface can be define as master, others are automatically set to slaves. All Triggers On or Off operated on the master interface are effective to slave ones. However slave interfaces are not synchronized with master's timing and keep individual controls. Consequently slaves can trigger and play different scenes at any time and not synchronized with the master ones. The master acts like a general remote imposing triggering to the slaves with total priority. Master can trigger ON and trigger OFF scenes of the slave interface.

- **MODE MASTER/SLAVE « LTP »**

LTP means Latest Takes Priority. All interfaces are defined as slaves. Interfaces are not synchronized with timing and can trigger and play different scenes by itself. However triggers from an interface are passed to the others connected interfaces automatically and slave interfaces are forced to trigger the same scene. Here each interface acts like a general remote imposing triggering to the other slaves without synchronization.

- **THE «NO RELEASE» Option**

This option is only available with LTP or DESYNCHRONIZED modes. Only triggers ON from the master interface are executed and effective. All triggers OFF are ignored and slaves interfaces keep playing their current scene. Each Slave interface can choose to release or not its scene depend on the option is activated or not.

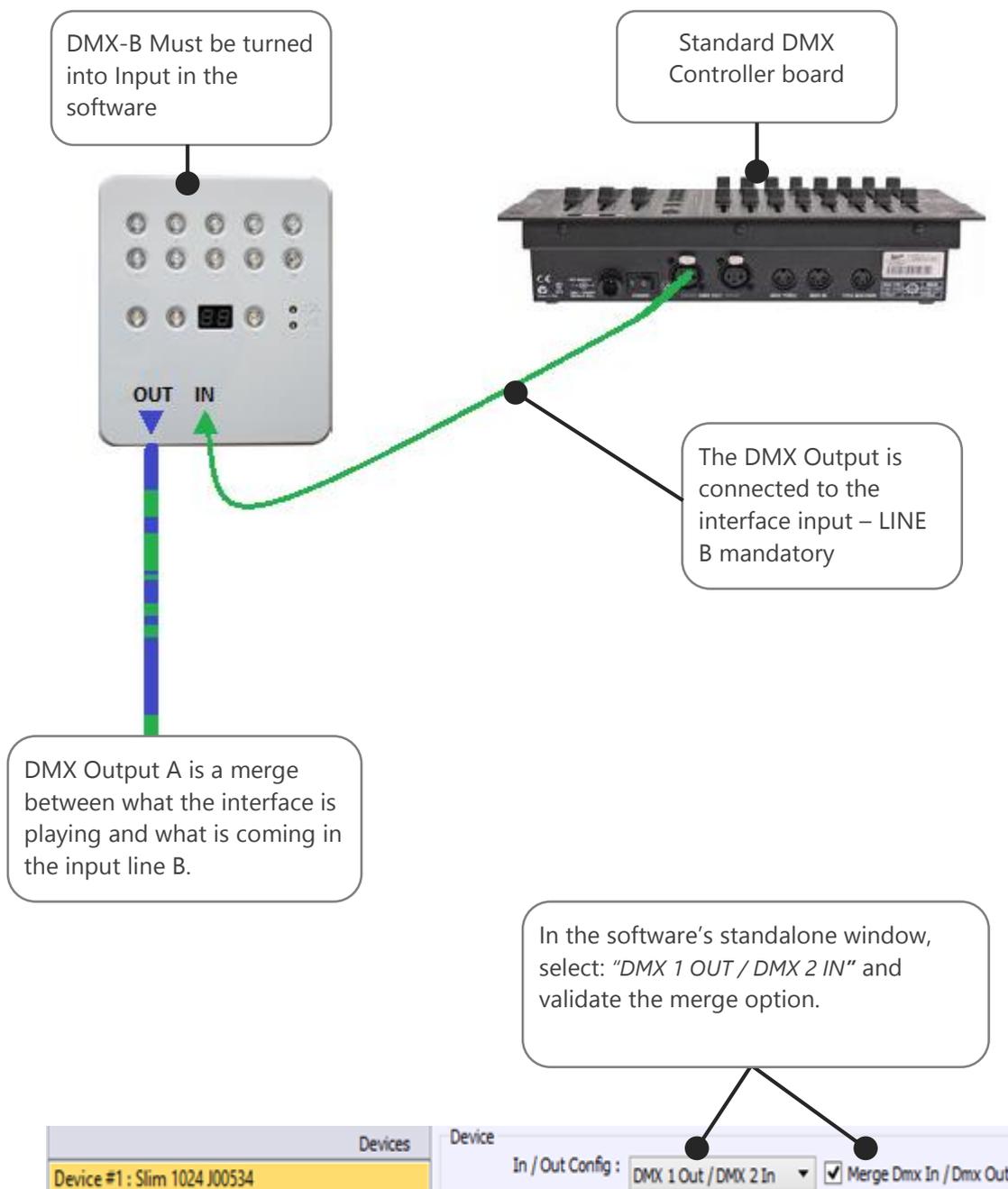
## DMX MERGING IN STANDALONE

DMX Merging is available for the 1024 SLIM interfaces only, because it takes two DMX lines to make a merge.

One DMX line must be turned into an input to capture the DMX signal provided by an external DMX board or by another DMX interface.

The interface will merge the input signal with its own output signal by comparing DMX levels with a HTP filter.

Merging is a solution to keep manual control on channels, using a DMX Board for example. It's also a way to create a multi-zones system by merging several interfaces on one final DMX line.



## TRIGGERS CONFIGURATION WITH THE SOFTWARE

The Stand Alone mode of the software enables to configure and personalize all the triggers.

The information will be directly saved in the DMX interface memory with the memory writing function.

### SWITCH TO STANDALONE MODE

When the device isn't connected to the software or has just been powered, it enters in Stand Alone mode after five (5) seconds.

### LED BUTTONS TRIGGER

Standalone mode offers 10 buttons that represents the interface LED buttons.

From the scene list of the standalone mode, you need to drag and drop a scene on any button to assign a button number.

The screenshot displays the software interface for configuring triggers. On the left, a table titled "Scenes to load in memory" lists 10 scenes with columns for Name, Duration, Properties, Triggers, and Area. On the right, a "Triggers" panel shows 10 numbered buttons (1-10) and dropdown menus for "Remote", "External Contacts", and "Dmx In (Channel / Level)".

	Name	Duration	Properties	Triggers	Area
1	Scene 1	00m 03s 720	00:00:000 #2	→ #	#1
2	Scene 3	00m 07s 560	00:00:000 #4	→ #	#1
3	Scene 4	00m 01s 440	00:00:000 #1	→ #	#1
4	Scene 5	00m 09s 800	00:00:000 #1	→ #	#1
5	Scene 6	00m 49s 800	00:00:000 #5	→ #	#1
6	Scene 7	00m 10s 000	00:00:000 #oo	□ #	#1
7	Scene 8	00m 01s 800	00:00:000 #oo	□ #	#1
8	Scene 9	00m 01s 800	00:00:000 #oo	□ #	#1
9	Scene 10	00m 01s 800	00:00:000 #oo	□ #	#1

It's possible to replace a scene by another or to remove it by pulling it out of the list.

### INFRA RED REMOTE TRIGGERS

Standalone mode offers up to 10 triggers with the Infra-Red remote.

By selecting a scene in the list, it's possible to choose the remote button number (from 01 to 10) to trigger the scene.

The other IR remote functions will work as well as the SLIM DMX interface. (Speed, dimmer, scene +, scene -, off).

This close-up shows the selected row for "Scene 7" in the scene list, with the "Remote" dropdown menu set to "03".

6	Scene 7	00m 10s 000	00:00:000 #oo	□ #	#1	Remote : 03
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## EXTERNAL CONTACT TRIGGERS

The Stand Alone mode offers up to 15 external possible triggers.

By selecting a scene in the list, it's possible to choose the external contact number (from 01 to 15) to trigger the scene. By default, the interface gives 4 external contacts (01, 02, 04, 08). To obtain 15 external contacts, you have to use a demultiplexing interface in order to go from 4 to 15 possible combinations.



## DMX IN AND TRIGGERS VIA ANOTHER DMX SIGNAL

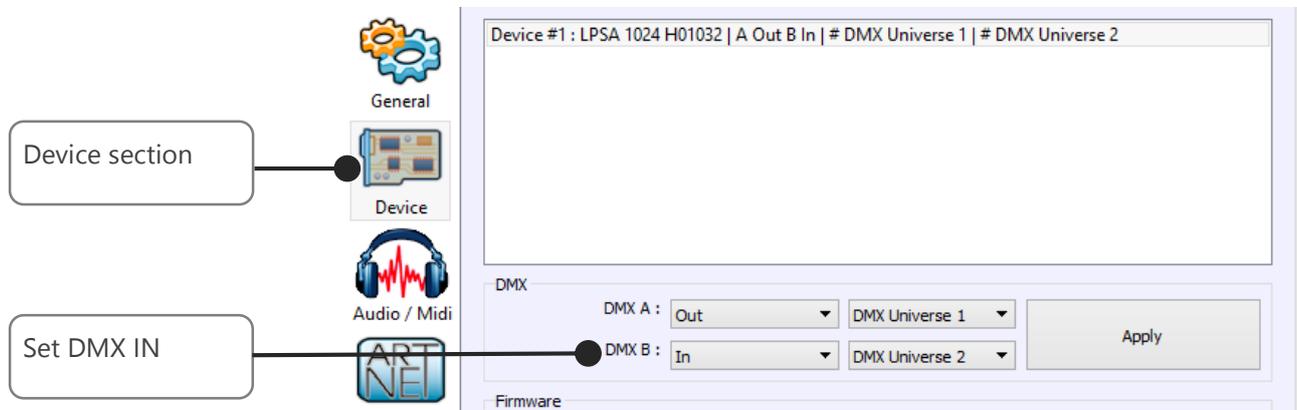
The Stand Alone mode offers up to 512 DMX IN channel triggers and up to 255 DMX trigger values per channel.

By selecting a scene in the list, it's possible to choose the channel number and the DMX value to trigger the scene. The scene will play when the value of the DMX channel is reached or exceeded.



**NOTE:** This option is available with 1024 interfaces only

One of the DMX lines must be turned into Input in software's options window. To reach this window go to the software's menu : *Tools > Options* then click on the *Device* section as following :



The Stand Alone mode has an internal clock and a calendar. It's possible to assign a time trigger on every scene of the list. By selecting a scene on the list, it's possible to choose the start and end dates and hours and days of the week. You can thus create a lot of scenarios.

### CASE 1: Programming a unique trigger:

- **Start schedule:**

The scene is triggered a single time at the given date and time.

- **End schedule:**

The scene is stopped at the given date and time.

### CASE 2: Programming a repeating trigger:

- **Start schedule:**

Date from which-one the scene will be playable according to the programmed triggers

- **End schedule:**

Date after witch-one triggers will be ignored. With no End date, triggers are permanent

- **List of the months of the year**



The 12 check boxes represents the 12 months of the year (J) January to (D) December. The triggers will be performed on the activated months. Next, a daily hours range must be defined.

- **Start and Stop days**



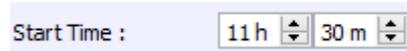
With a monthly repetition, you can choose the starting and stopping days for each chosen month. In this example triggers can happen between the 1<sup>st</sup> and the 15<sup>th</sup> of each chosen month.

- **List of the days of the week**



The 7 check boxes represents the 7 days in a week. The triggers will be performed on the activated days only. Next, a time range must be defined.

- **Start time**



The starting time is the time when the scene will be triggered for each chosen day. Of course chosen months, start and end schedule days are included.

- **Release time**



The release time is the time when the scene will stop for each chosen day. Of course chosen months, start and end schedule days are included. The release time is not mandatory, if it's not defined, the scene will keep playing until another trigger event happens. (Like the triggering of another scene for example).

**NOTE:** For a daily repetition, if the the starting time is later than the release time then the triggering will stopped the next day, even if the next day has not been selected.

#### SAVE AND RECOVER THE LAST SCENE AFTER THE POWER CUT OFF:

Scenes with a start schedule and a stop schedule are set on a defined time space and can be memorized. The interface save the last scene played before the power cut off and recover it when the power is restored. The scene must obligatory include a start schedule and a stop schedule activate this option.

#### SCENE TRIGGER PRIORITIES:

When several scenes have the same time trigger (date + hour + minute), only the first scene in the list will be triggered. The rest will be ignored

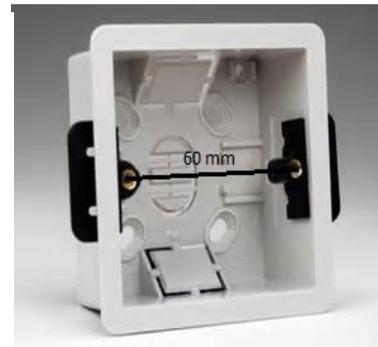
## WALL MOUNTING INSTRUCTIONS

The SLIM interface can be wall mounted on any place and surface.

Wires are connected to the screw terminal block located on back of the SLIM housing. To fix the SLIM housing to a Europe, Asia or America standard wall switch box, there are 4 holes located behind the housing.

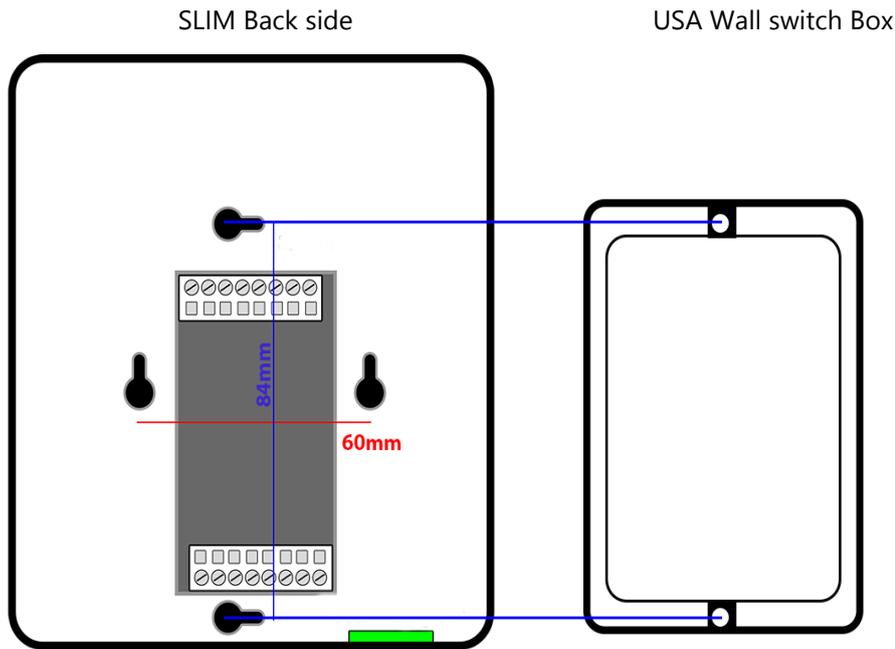
Follow the mounting instruction to proceed.

FOR EUROPE AND ASIA STANDARD: 60MM CENTER TO CENTER DISTANCE.

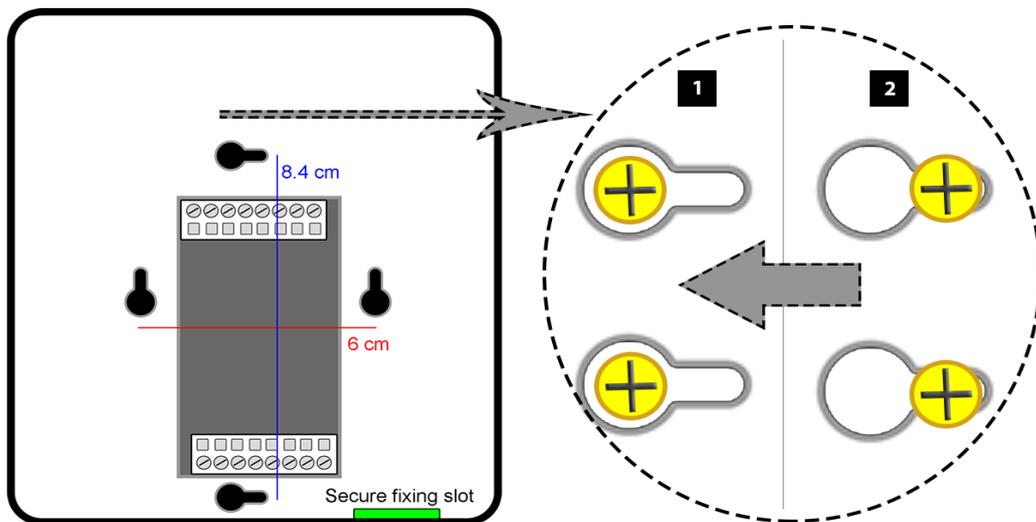


FOR AMERICA STANDARD: 84MM CENTER TO CENTER DISTANCE.





USE THE SCREWS OF THE WALL SWITCH BOX TO HOLD THE SLIM:



- 1** Insert the screws in the hole (vertical axe for USA wall boxes else horizontal axe) , adjust the screw position to hold well the housing.
- 2** Slide the housing to lock the screw in the slots

## THE SECURE FIXING SLOT

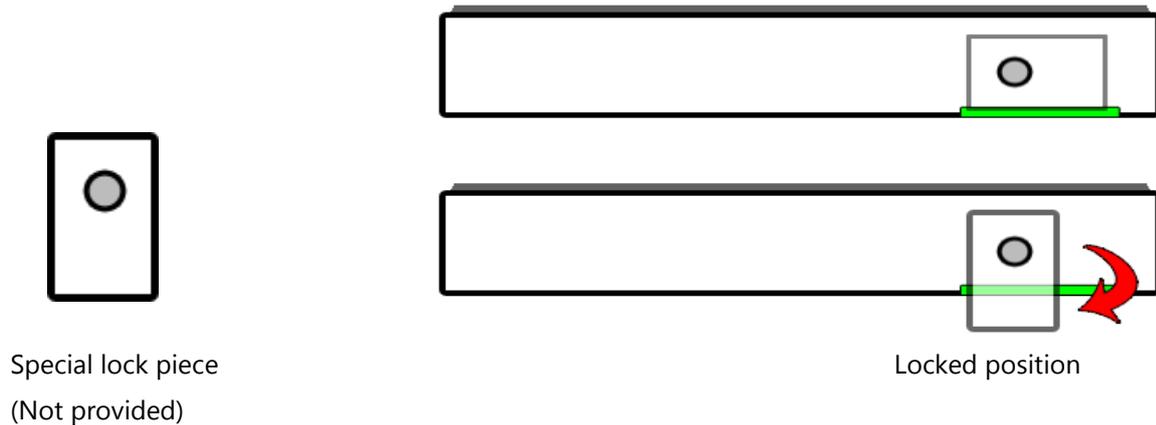
It's now easy to remove the SLIM from the wall by sliding it the opposite way to unlock the screws.

To avoid and secure unexpected unlocks, you can use the secure fixing slot.

The secure fixing slot is used to ensure that housing stays on its wall-mounted position.

To do that, it takes a special piece (plastic or metal) to be used like a lock.

We do not provide this part. This piece size should be 15mm x 20 mm maximum and need to receive a screw. You also need to create a slot in the wall to receive that lock piece.



Thanks to that lock, it's now **not possible** to slide back the switch box screws to the plain holes of the SLIM case.

